Copy 1

New Hampshire ARCHITECT

The President's Message

EXPANDING HORIZONS

The New Hampshire Chapter, American Institute of Architects welcomes architect members of other New England chapters at the regional meeting.

This meeting, being held October 14 and 15 at the Bald Peak Colony Club at Melvin Village, New Hampshire will focus on the subject "The Expanding Services of the Architect."

John Kenneth Galbraith, a leading economist, writing in "The Liberal Hour" observes.

> "That design is one dimension of quality no one will question. But that it is a dimension of growing importance must still be stressed. A poor society may ask only that its products be well engineered; a richer one is certain to require that they have beauty as well. In the earlier stages of industrialization, the engineer is important. In the later stages he yields place to the artist."

In building, planning, and otherwise shaping the physical environment to come, the Architect will be called upon to play the leading role. A comprehensive awareness of many related fields of knowledge, uniquely fits him to direct effective and sensitive environment development.

When a prominent economist so well expresses the position of the artist — designer, the Architect must lift his sights to the expanding horizons of design.

E. H. Hunter

OFFICIAL PUBLICATION

New Hampshire Chapter of the American Institute of Architects

AMERICAN INSTITUTE
OF
OCT 17 1960
LIBRARY

OCTOBER
1960

25c A COPY
$3.00 A YEAR

Dutch Boy —THE NAME TO GO BUY—FOR EVERY PAINT JOB

First choice of professional painters—first choice with home owners—that's *Dutch Boy*. There's a *Dutch Boy* finish specially blended for every painting need, inside or outside your home, and you can depend on it for long-lasting beauty. Choose yours today at—

PAINT DEPARTMENT
Main Store — Street Floor

BUILDER'S PAINT DEPARTMENT
MOREAU ANNEX
Opposite Main Store

EXCLUSIVE DEALER

J. J. MOREAU & SON, INC

MANCHESTER, N. H.
Dial NA 4-4311

Armstrong

ACOUSTICAL FIRE GUARD

the first time-design-rated acoustical ceiling tile distributed and installed in

MAINE
NEW HAMPSHIRE
VERMONT

NEW ENGLAND INSULATION CO.

Alton, New Hampshire

Phone: Alton 5-7500

Arthur E. Swanson, Manager

Sanel Industrial, Inc.

Distributors of
Construction Equipment and Supplies

159 South Main Street · Concord, N.H.

Tel. CA 5-2726

Sonneborn Building Materials
Delta Power Tools
DeWalt Radial Saws
Schlueter Artic Boy Water Coolers
Timken Bits
Crosby Clips
Aeroquip Hose & Couplings
Vulcan Drill Steel & Pavement Breaking Tools
Laughlin Drop Forge Fittings
Dixon Valves & Couplings
Springs — New & Repaired
Welding Supplies — Marquette, Victor & Stulz-Sickles
Complete Motor Rebuilding
Kohler Electric Plants
Complete stock of all sizes Machine Bolts & Cap Screws

ANDREW T. JOHNSON CO., INC.

4 LOCATIONS — 3 IN BOSTON
- 15 TREMONT PL.
- 103 NEWBURY ST.
- 173 MILK ST.

BURLINGTON, MASS. ON MIDDLESEX TURNPIKE I
(AT EXIT 35 OFF ROUTE 128)

RIchmond 2-1610

(*Connecting all Plants*)

REPRODUCTIONS OF ALL TYPES

- BLUEPRINTS (on Paper or Cloth)
- BLUELINE PRINTS (on Paper or Cloth)
- PHOTOSTATS (Negatives or Positives)
- DIRECT WHITE POSITIVES (Blue or Black Lines)
- AUTOPOSITIVES (Direct Positive Prints)
- "PHOTO-ARC" TYPE (Negatives or Positive Prints)
- KODALITH PAPER (Negatives or Positives)
- J-R REPRODUCTIONS (on Blue or White Tracing Cloth)
- VAN DYKE NEGATIVES AND POSITIVES
- "B & W" SEPIA PRINT "Transparents" on Ve lum, Etc.
- FILM NEGATIVES AN POSITIVES (Enlarged or Reduced)
- CAMERA ENLARGEMENTS or BROMIDE POSITIVES (Up to 60" x 120" mac in one piece on one the largest commerci cameras in New Eng land)
- PHOTO VELLUM PRINT Enlarged or Reduced
- GLOSSY PHOTOGRAPHIC PRINTS
- PHOTO-OFFSET OR PLANOGRAPH PRINTING

OFFICERS

President
EDGAR H. HUNTER, Hanover

Vice-President
ANDREW C. ISAAK, Manchester

Secretary
GEORGE SOULE, Manchester

Treasurer
FRANK E. KENNETT, JR., Conway

DIRECTORS

WALTER T. WILLIAMS, Rochester
ROBERT L. SNODGRASS, Nashua
W. BROOKE E. FLECK, Hanover

Regional Council Delegates
JOHN D. BETLEY
NORMAN P. RANDLETT
ALEXANDER J. MAJESKI
JOHN R. HOLBROOK
NICHOLAS ISAAK

Member of National Chapter Affair Committee
EUGENE MAGENAU

Member of Regional Judiciary Committee
RICHARD KOEHLER

Member of Sub-Committee on Building Products Registration
NORMAN P. RANDLETT

Members of AIA - AGC Committee
NICHOLAS ISAAK, Manchester
JOHN D. BETLEY, Manchester
WALTER T. WILLIAMS, Dover
W. BROOKE FLECK, Hanover
STEPHEN P. TRACY, Nashua

EDITOR

ALEXANDER MAJESKI, R. A.
Palomino Lane
Manchester, N. H.

PUBLISHER

ROBERT P. MOYNIHAN
P. O. Box 291
Concord, N. H.
Tel. CA 5-6760

New Hampshire ARCHITECT

VOL. 12 OCTOBER, 1960 NO. 3

TABLE OF CONTENTS

New NCMA Film on Fallout Shelter Construction 6

N. E. Chapter, Architectural Woodwork Institute Holds Meeting 6

Dirsa & Lampron, AIA Change Office Location 8

William E. Dunn to Speak at Portsmouth 8

Projects by Alfred T. Granger Associates, AIA 11-21

"It is High Time!!" by Kenneth E. Maxam 24

Northern Association of Subcontractors Schedule Fall Meeting 28

New Building and Location for Interstate Restaurant Equipment Co. 29

New Hampshire Architect is published monthly, under the direction of the president and board of directors of the New Hampshire Chapter, American Institute of Architects, to promote the objectives and public relations of the chapter. Advertising rates furnished upon request.

REFRIGERATION
DISTRIBUTORS
FOOD SERVICE
CONSULTANTS

Complete Planning Service

For Markets and Food Stores
Special Industrial Refrigeration
Complete Air Conditioning
Hotel, Restaurant and
Institutional Kitchens,
Cafeterias, Dining Areas
Cocktail Lounges

HUMPHREYS, INC.
180 No. Main Street - Concord, N. H.
A Business Devoted To Those
Who Serve Food

DERRYFIELD SUPPLY CO., INC.

- Wholesalers -

•

Kohler Plumbing Fixtures

National — U. S. Radiator Heating Products

Fluid Heat Air Conditioning

John Wood Hot Water Heaters

H. B. Smith Boilers

Pipe • Fittings • Valves

National Disposal Units

•

GRANITE and FRANKLIN STS.
Manchester, N. H.

1ST STEP TO SOUND, SUCCESSFUL BUILDING

CONSULT AN ARCHITECT

N. H. CHAPTER A. I. A. COMMITTEES
1960 — 1961

CHAPTER ACTIVITIES

Malcolm D. Hildreth, Chairman
Joseph F. Lampron, Membership
Charles H. Gray, Education
Theodore Postma, Office Practice
George R. Thomas, Awards and Scholarship

PUBLIC RELATIONS

Nicholas Isaak, Chairman
Edward B. Miles, Government Relations
Alexander J. Majeski, New Hampshire Architect
Alexander J. Majeski, Construction Industry
John A. Carter, Collaboration with Desig Profession

COMMUNITY DEVELOPMENT

Willis Littlefield, Chairman
Horace G. Bradt, Preservation of Histor Buildings
Arnold Perreton, Research
Stephen P. Tracy, School Buildings
Leo P. Provost, Hospitals and Health

Serving the People

of NEW HAMPSHIRE

John D. Betley,
Manchester

Horace G. Bradt
Exeter

Dirsa and Lampron,
Manchester

W. Brooke Fleck,
Hanover

Alfred T. Granger Associates,
Hanover

Russell S. Harmon,
Durham

Irving W. Hersey Associates,
Durham

John R. Holbrook Associates,
Keene

Andrew C. Isaak
Manchester

Koehler and Isaak,
Manchester

Littlefield and Williams
Dover

Alexander Majeski,
Bedford

Arnold Perreton and Associates,
Concord

Douglass G. Prescott,
Laconia

Leo P. Provost,
Manchester

Norman P. Randlett,
Laconia

Tracy and Hildreth,
Nashua

William L. White,
Exeter

Maurice E. Witmer,
Portsmouth

Participating Members of the New Hampshire Chapter

A. I. A.

NEW NCMA FILM PUTS FALLOUT SHELTER CONSTRUCTION IN TERMS OF AVERAGE FAMILY BUDGET

Characterized in terms of the average family income, National Concrete Masonry Association's brand new film, "Walt Builds a Family Fallout Shelter," dramatically illustrates how the majority of Americans today can afford protection against the dreaded effects of atomic radiation. Containing the essential ingredients for wide public interest, this entertaining, yet highly instructive film produced with technical assistance by the National Office of Civil and Defense Mobilization, promises to be an important contribution to civil defense efforts throughout the country.

The movie is set in the basement of a typical house, showing the savings readily available to the homeowner since many of the initial measures a building project entails have already been completed. And to depict the speed with which this type shelter construction is accomplished, the film presents step-by-step building methods that can be followed with ease and confidence.

Another appealing aspect of the film is its portrayal of a shelter's attractive prospects for everyday family use. Without losing sight of the more serious reasons for shelter construction, the movie points out the room's happy possibilities as an extra bedroom, family hideaway, castle of calm, hi-fi haven or whatever purpose the owner may choose to use it.

Plans for the shelter shown in the film were reviewed by OCDM which found that the economical 8 x 4 x 16″ solid concrete masonry units used met all requirement for adequate protection against atomi fallout as well as natural disaster. Com parative research has proven that man other building materials require more tha twice the 8″ thickness in order to achiev the same degree of effectiveness.

In a closing message, Governor Leo A Hoegh, Director, OCDM, re-emphasizes th urgent necessity for immediate action i implementing widespread fallout shelte construction if our nation is to be ade quately prepared in event of atomic wa fare.

This 16 millimeter sound film in blac and white is 28 minutes long and is ideall suited for programs of civic group women's clubs, schools, building trade meetings, television, and movie theater Arrangements for showing the film ca be made through local concrete block pr ducers.

NEW ENGLAND CHAPTER, ARCHITECTURAL WOODWORK INSTITUTE HOLDS FALL MEETING

On September 23, through the 25t members and guests of the New Englan Chapter, Architectural Woodwork Inst tute, held a three day meeting. Scene the affair was the Mittersill Lodge, Fra conia, N. H.

Participating in panel discussions we members of N. H. Chapter, AIA, includin chapter president, E. H. Hunter, who e tended greetings from members of th American Institute of Architects. Gener topics of cabinet work and millwork wa the expression of architects who partic pated.

A ROOF BY THERRIEN IS A GOOD ROOF

TEL. 3-6193 199 HAYWARD STREET MANCHESTER, N. H.

THE ASSOCIATED GENERAL CONTRACTORS
of
NEW HAMPSHIRE-VERMONT INCORPORATED

SKILL · RESPONSIBILITY · INTEGRITY

THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA · AGC

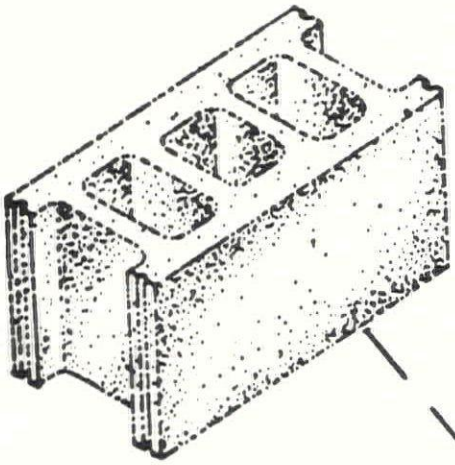
Extend Greetings and Best Wishes to the New England Regional Conference American Institute of Architects

SEAL OF THE AMERICAN INSTITUTE OF ARCHITECTS · MDCCCLVII

May your seminar and meetings be informative and conclusive.

May your quest for relaxation and fellowship be fulfilled.

May you leave us, pleased with your program, your association, and our bountiful, beautiful area.

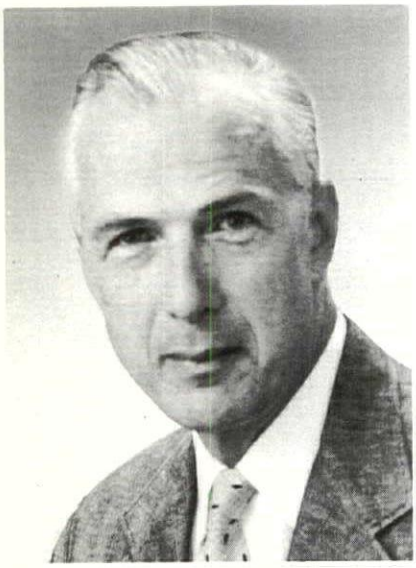


DURACRETE

OFFICE LOCATION CHANGED

The architectural firm of Dirsa and Lampron, AIA, have moved their offices from 922 Elm Street, to 814 Elm Street, Manchester, N. H. The new location offers the firm increased space and facilities. The change in location was effected October first.

WILLIAM E. DUNN TO SPEAK AT PORTSMOUTH



A meeting of the Associated General Contractors of New Hampshire-Vermont Incorporated will be held at the Rockingham Hotel, Portsmouth, on Thursday, October 27th.

Guest speaker will be William Dunn, Assistant Executive Director, Associated General Contractors of America.

1ST STEP TO SOUND, SUCCESSFUL BUILDING

CONSULT AN ARCHITECT

NEW ENGLAND
BRICK COMPANY
102 SHERMAN STREET
CAMBRIDGE 40, MASS.

Distributors Of

FACING BRICK

All Colors Sizes Textures

ACID AND FLOOR BRICK

REFRACTORIES

Fire Brick Insulating Brick Mortars

CALL UNiversity 4-5540
for
CARLOAD or TRUCKLOAD SHIPMENTS
PALLETIZED WAREHOUSE SERVICE

VERMONT SLATE
for
Fine Buildings

Floors - - - Roofing
Flagstone - - - - - Structural

Our quarries and finishing plants producing all colors of natural Vermont slate are at your service. Consult our estimating department for prompt quotations and general information.

VERMONT STRUCTURAL SLATE CO, Inc.
FAIR HAVEN, VT. TEL. 28

YOU — MR. ARCHITECT
YOU — MR. COMMITTEEMAN
YOU — MR. BUSINESSMAN
YOU — MR. TAXPAYER

DO YOU BELIEVE THAT:

It is possible to get something for nothing?
Any one of us can work a miracle?
A house should be built on sand?
Bargain prices are the safe way to buy?

IF YOU DO — then for Pete's sake — save your time and ours — quit reading this now.

IF YOU DO NOT — THEN:

BEWARE of bids that are too low.
BEWARE of "those who come bearing gifts."
BEWARE of rash promises.
BEWARE of construction called "good enough."

MR. ARCHITECT: Consider your reputation. Consider your clients need is not price alone. Consider each decision of yours and — the impact of your decision on the industry—our industry. Consider, and realize that everything needed should be specified, and everything specified must be paid for.

MR. CONTRACTOR: Consider your profit picture. Consider what you are getting. Consider what you must give.

MR. BUYER OF OUR LABORS: Remember there is a right price for everything. Remember our product is to be in your hands a long, long time. Remember those whom you represent.

• Demand •

SKILL RESPONSIBILITY INTEGRITY

The **maxam** *Company* INC.

THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA

GENERAL CONTRACTORS
Portsmouth, N. H.

GEneva 6-9000

for

MARY C. DONDERO
MEMORIAL ELEMENTARY SCHOOL

ELWYN PARK
Portsmouth, New Hampshire

If you care to read more — see our letter to the editor

Fabricated Steel Products Co., Inc.

Agents for

Ceco Steel Products Corporation

STEEL JOISTS - ROOF DECK

STEEL SASH - ALUMINUM SASH

REINFORCING MESH

DUR-O-WAL

Warehouse and Office

115 Old Colony Avenue

Wollaston 70, Mass.

GRanite 9-5218

DUNLOP & HOEY

John R. Dunlop
Cross Rd.
Tilton, N. H.
ATlas 6-4512

Raymond A. Hoey
105 Mechanic St.
Laconia, N. H.
LAkeside 4-9458

Electrical Contractors

Industrial — Commercial — Residential

●

ELECTRICAL CONTRACTORS
for
Addition and Alterations
to
ATLANTIC HEIGHTS
ELEMENTARY SCHOOL
Portsmouth, New Hampshire

BLANCHARD STEBBINS, INC.

SKILL RESPONSIBILITY INTEGRITY

THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA

Commercial and Industrial Work

330 Lincoln Street Dial NA 3-2273

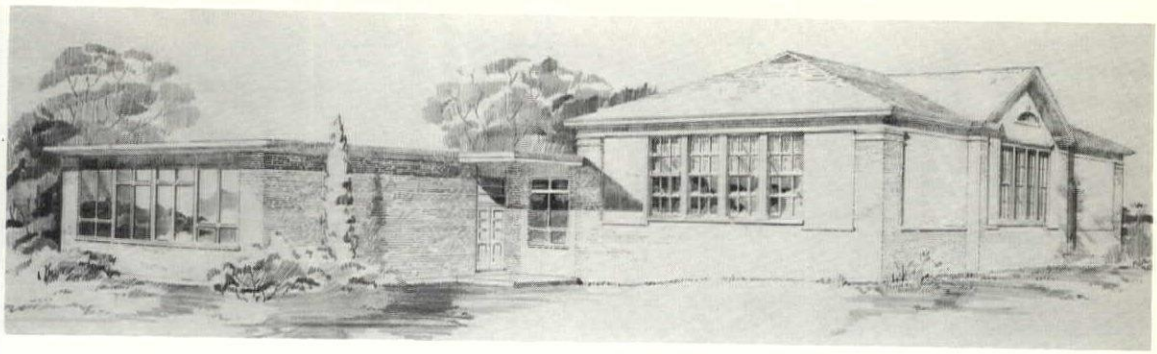
MANCHESTER, N. H.

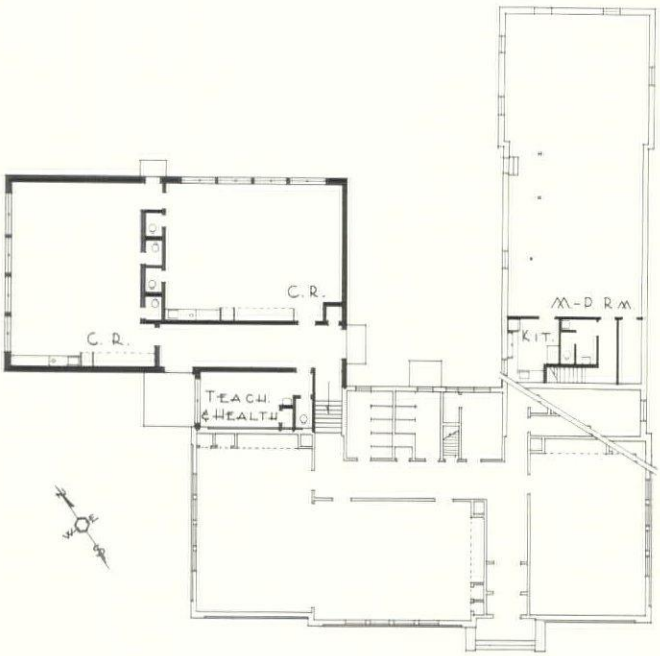
General Contractor

for

For Additions And Alterations To ATLANTIC HEIGHTS ELEMENTARY SCHOOL Portsmouth, New Hampshire

ADDITIONS AND ALTERATIONS TO ATLANTIC HEIGHTS ELEMENTARY SCHOOL — PORTSMOUTH, NEW HAMPSHIRE





CONTENTS:
Two Classroom Addition to Atlantic Heights Elementary School and remodeling Basement of present school into Multi-Purpose Room, Kitchen and Toilet and changing Heating System from coal to oil.

COSTS:

2 Classroom Addition	$45,276.00
Health Room and Toilets	
Remodeling Basement of Present School into Multi-Purpose Room	23,691.00
Total Construction Cost:	$68,967.00

ALFRED T. GRANGER Associates, A. I. A.

Architects and Engineers - Hanover, N. H.

BLANCHARD STEBBINS, INC., MANCHESTER, N. H.
GENERAL CONTRACTOR

MARY C. DONDERO MEMORIAL ELEMENTARY SCHOOL
ELWYN PARK — PORTSMOUTH, NEW HAMPSHIRE

CONTENTS:
Fourteen Classrooms — 25′ x 35′, Grades 1 through 3 to have separate toilets off each classroom with direct exit to playground. With Wardrobes and Teacher's Closets (provisions for 35 coats in each wardrobe). With Sink and bubbler cabinet wall counter and shelves. 16′ Length blackboards and 40 lin. ft. of tackboards; Principal's Office — 15′ x 25′, With Closet; Teacher's and Consultation Room — 18′ x 25′, With toilet and closet; Health Room — 15′ x 25′, With closets and toilet; Lobby — 18′ x 34′, With Coat Closet and 2 Public Toilets for Men and Women; Multi-Purpose Room — 45′ x 65′; Stage — 16′ x 45′, With storage underneath for seats; Kitchenette — 10′ x 20′; Grounds Equipment Room — 15′ x 16′; Book Storage Room — 16′ x 22′; Janitor's Closet and Supplies — 9′ x 16′; Janitor's Closet — 4′ x 6′; Boys' Toilet — With 5 urinals, 3 water closets, 2 lavatories; Girls' Toilet — With 5 water closets, 2 lavatories; Boiler Room — 16′ x 24′.

CONSTRUCTION MATERIALS:
Footings and Foundations — Reinforced Concrete; Walls above Foundations — Sand struck brick backed up with load-bearing concrete block; Floor Construction — Reinforced integral waterproofed concrete slab on earth with floor covering of vinyl tile throughout excepting Boys' and Girls' Toilets which will be ceramic tile, and Grounds Equipment Room and Boiler Room which will be granolithic; Roof Construction — 2″ x 14″ roof rafters, boarded, insulation, and 20-year bonded tar and gravel roof; Flashing — 16 oz. copper; Gravel Stop and Drip Edge — Lead-coated copper; Windows — Aluminum lower sash for ventilation with glass block above. Auditorium, Kitchen and Boiler Room, Aluminum sash; Interior Partitions — Concrete block, painted; Door Bucks — Metal trim and door buck combinations, 16 gauge; Doors — Outside, White pine, Inside, Birch veneer, solid-core, flush-type, glazed where shown; Ceilings — Acoustical tile units 12″ x 12″; Heating — Forced hot water, Vulcan radiation, Zone and Temperature controlled; Ventilation — Known as the Wheeler System, outside air through windows and taken out by ducks in classrooms at wardrobe heights to electrically-operated fans on roof. Galvanized iron ducts; Plumbing — Standard, meeting all plumbing codes and requirements; Sewage — City Sewer; Electric — Fixtures, Fluorescent and flush lighting, Wiring, Romex.

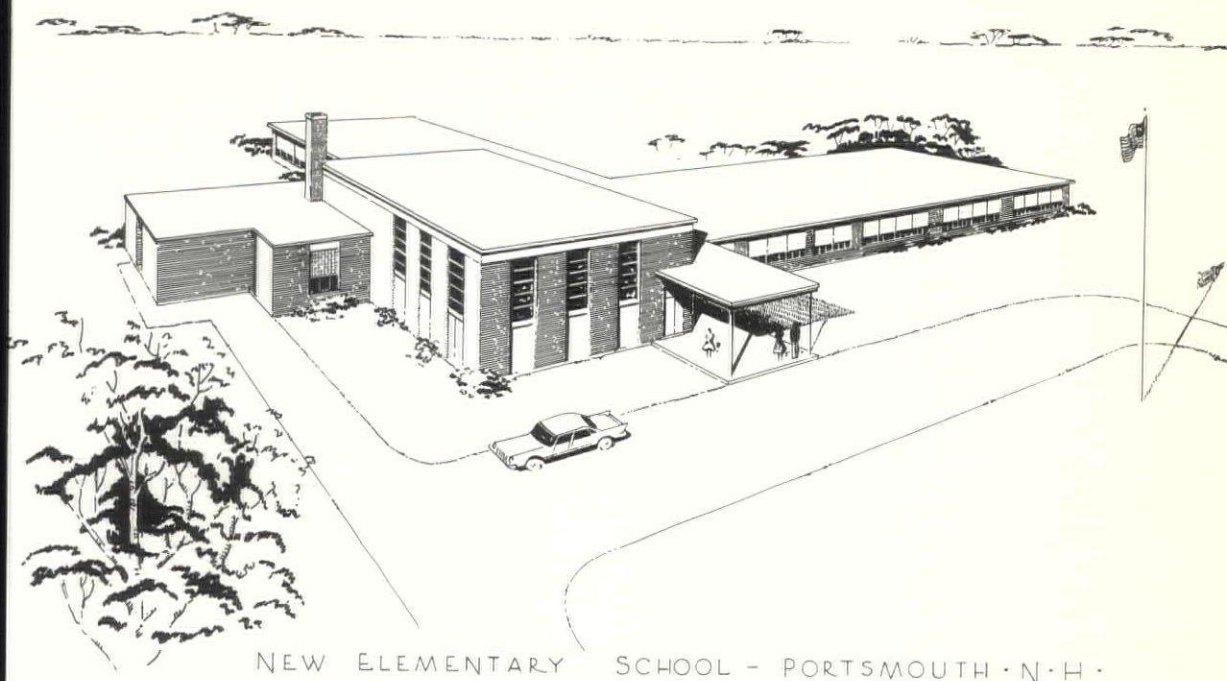
ITEM	*Cost*	*% of Total Cost*	*Cost Per. Sq. Ft.*	*Cost Per Cu. Ft.*
STRUCTURE	$240,858.00	75.8	$ 9.74	$ .576
PLUMBING	17,974.00	5.6	.72	.042
HEATING AND VENTILATING	40,760.00	12.7	1.62	.096
ELECTRICAL	18,870.00	5.9	.77	.046
TOTAL COST OF BUILDING	$318,462.00	100.0	$12.85	$ .76
Site Preparation, Finish Grading, Roads and Walks:	17,400.00			
TOTAL CONSTRUCTION COST:	$335,862.00			

TOTAL VOLUME: 418,797 cu. ft.— TOTAL AREA: 25,551 sq. ft.— BID OPENING: December 10, 1959—CLASSROOM HEIGHT: 10′- 0″—MULTI-PURPOSE ROOM HEIGHT from floor to bottom of trusses, 17′ - 9″.

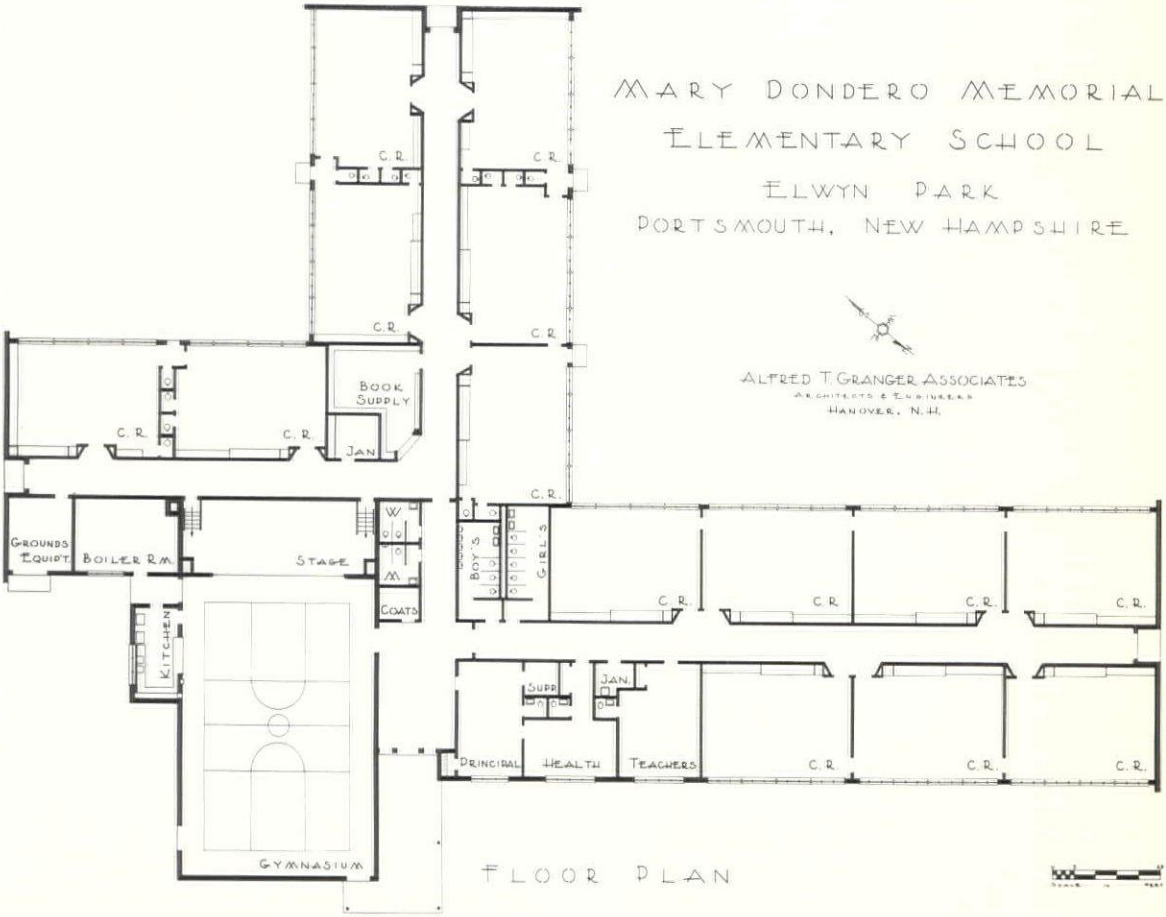
SUPERINTENDENT OF SCHOOLS: Raymond I. Beal.

Alfred T. Granger Associates, A.I.A., Architects and Engineers
Hanover, N. H.

THE MAXAM COMPANY, INC., PORTSMOUTH, N. H.
GENERAL CONTRACTOR



NEW ELEMENTARY SCHOOL - PORTSMOUTH · N · H ·



FLOOR PLAN

M. B. Foster Electric Co.

Telephone GEneva 6-5606 - 07

69 Albany Street

PORTSMOUTH, N. H.

●

Electrical Contractor

for

MARY C. DONDERO
MEMORIAL ELEMENTARY SCHOOL
ELWYN PARK
Portsmouth, New Hampshire

ARCHITECTURAL STONE COMPANY

INCORPORATED

●

MANUFACTURERS OF

CAST STONE

TURNERS FALLS

MASSACHUSETTS

HEATING
PLUMBING
BOILER INSTALLATION

SENIOR HIGH SCHOOL
Milford, N. H.

By

New Hampshire's Leading Plumbing and Heating Contractors

MITCHELL & HICKS COMPANY, Incorporated
62 Hall St. Concord, N. H.
Phone CA 5-2772

STEPHEN EXEL

PAINTING and DECORATING
CONTRACTOR

P. O. Box 85

Keene, N. H.

ELmwood 2-6244

Painting Contractor

for

SENIOR HIGH SCHOOL
Milford, N. H.

And Other Fine Buildings
Throughout New Hampshire and Vermont

INDUSTRIAL
COMMERCIAL
RESIDENTIAL
PLANNING
BLUEPRINTING

Electrical Contractor

— for —

SENIOR HIGH SCHOOL
Milford, N. H.

PHILIP D. MORAN

Keene, N. H.

103 Winchester St.

Tel. EL 2-2215

HEATING
VENTILATING
MACHINE ERECTING
MILLWRIGHT WORK

McKay & Wright, Inc.

Milford 1060

Milford, N. H.

- Excavating and Site Work
- Paving Drives and Walks
- Finish Grading and Seeding

for

SENIOR HIGH SCHOOL
Milford, New Hampshire

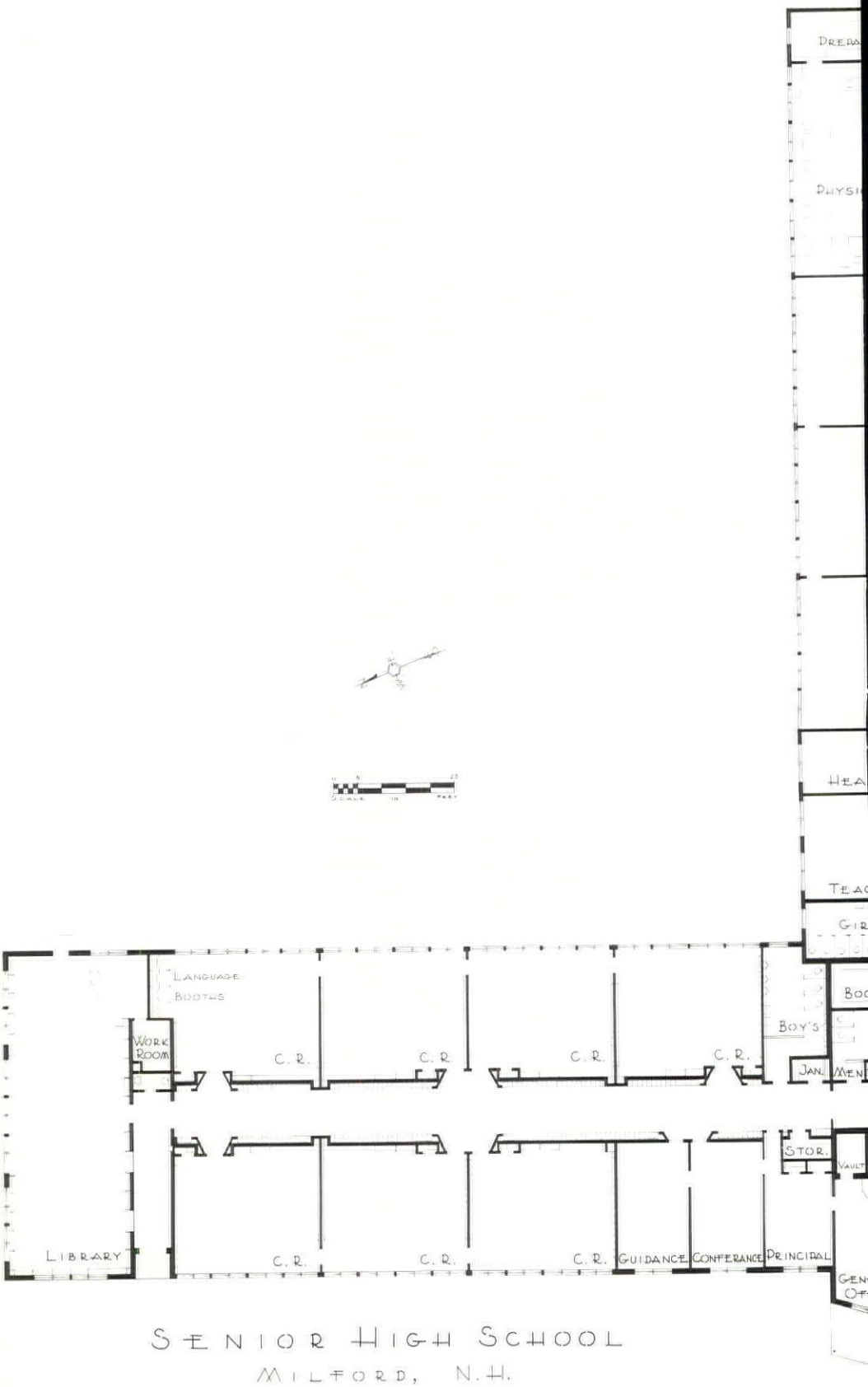
SUPPLIERS OF —

Washed Sand • Stone • Gravel
Construction Equipment
Rentals

RESERVED FOR

CRAFTSMEN CORPORATION

MILFORD, NEW HAMPSHIRE



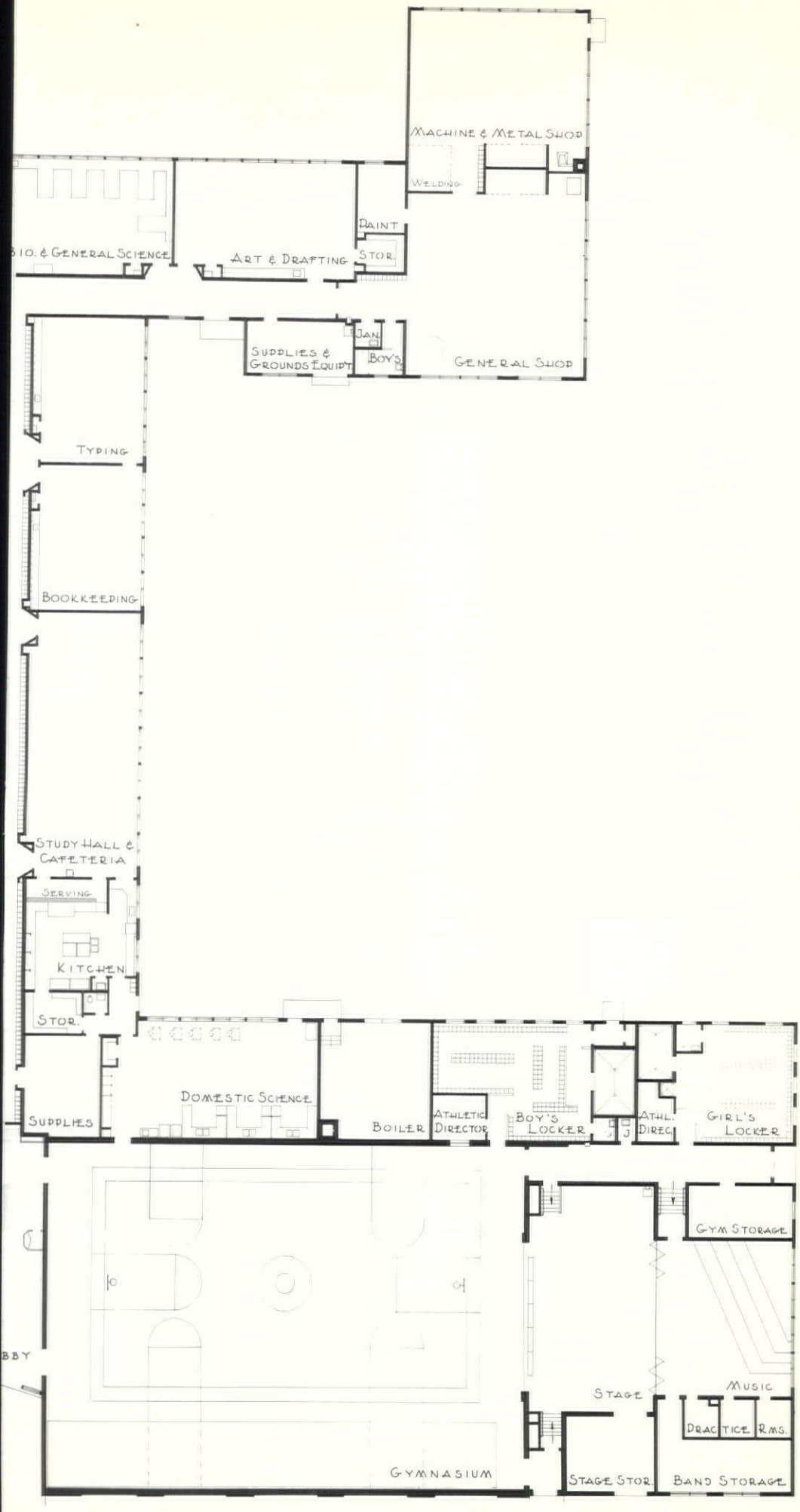
SENIOR HIGH SCHOOL

MILFORD, N.H.

ALFRED T. GRANGER ASSOCIATES

ARCHITECTS & ENGINEERS

HANOVER, N.H.


MACHINE & METAL SHOP
WELDING
PAINT STOR.
BIO. & GENERAL SCIENCE
ART & DRAFTING
JAN.
BOY'S
SUPPLIES & GROUNDS EQUIP'T
GENERAL SHOP
TYPING
BOOKKEEPING
STUDY HALL & CAFETERIA
SERVING
KITCHEN
STOR.
SUPPLIES
DOMESTIC SCIENCE
BOILER
ATHLETIC DIRECTOR
BOY'S LOCKER
J
ATHL. DIREC.
GIRL'S LOCKER
GYM STORAGE
BBY
STAGE
MUSIC
PRACTICE RMS.
GYMNASIUM
STAGE STOR.
BAND STORAGE

NEW SENIOR HIGH SCHOOL BUILDING — 400 PUPILS
MILFORD, NEW HAMPSHIRE

CONTENTS — SCHOOL PORTION:
Ten Classrooms (Home Rooms) 25′ x 30′ with Teacher's Closet, Book Counter and Built-In Storage. One of these classrooms to have 4 Language Booths and equipped for Language Laboratories; Library — 25′ x 63′, Shelving 4700 Books with Work Room 8′ x 9′-6″; Desk and Delivery 8′ x 12′, Public Toilet; Guidance Room — 14′-9″ x 25′; Conference Room — 14′-9″ x 25′; General Office — 14′ x 26′ with Waiting Space & Counter, Vault 6′ x 8′; Principal's Office — 14′ x 18′ with 2 Closets; Teachers' Room — 20′ x 20′-6″ For both Male and Female, 2 Toilets; Kitchenette Facilities; Health Room — 12′ x 20′ with Toilet and Closet; Two Science Laboratories — 25′ x 43′, Preparation Room 10′ x 25′, accessible from both Laboratories; Art and Drafting Room — 25′ x 41′ with Supply Storage 8′ x 10′; Two Shops — 40′ x 40′, Paint Room 10′ x 17′, Incinerator and Forge; Supplies and Grounds Equipment — 11′ x 24′; Typing Room — 25′ x 32′; Bookkeeping Room — 25′ x 32′; Cafeteria — 25′ x 57′, Seating capacity 150; Kitchen & Serving Counter — 24′ x 25′, Food Storage, 9′ x 12′-6″, Help's Toilet, Janitor's Closet & Help's Locker Space; Domestic Science Room — 25′ x 48′-6″; Book Storage — 8′-6″ x 16′; Supply Room—17′ x 21′-8″ with outside service entrance; Boys' Toilet — 13′ x 25′; Girls' Toilet — 11′ x 25′; Three Janitor's Closets — 4′ x 7′.

GYMNASIUM PORTION
Corridor Lobby — 22′ x 48′ with Coat Room 7′ x 7′-6″ with Public Toilets, Men and Women, Ticket Booth, Telephone Booth; Gymnasium — Auditorium 73′ x 108′, Basketball Court 50′ x 88′, Bleachers, seating capacity 608, 21′-0″ clearance under trusses; Stage — 28′ x 49′, with 32′ proscenium; Stage Storage — 15′ x 20′; Boys' Physical Education Director's Room — 9′-6″ x 12′-4″ viewing Basketball Court; Girls' Physical Education Director's Room — 8′ x 12′; Boys' Locker Room — 25′ x 36′, with Gang Shower, 9′ x 14′ and Toilet; Girls' Locker Room — 20′ x 25′, with Gang Shower, 8′ x 12′ and one private shower and toilet; Music Room — 31′ x 33′, Adjacent to Stage separated by soundproof doors, raised platform, Three Practice Rooms, 7′-6″ x 8′, Band Storage, 11′ x 30′; Gym Storage—11′ x 23′; Janitor's Closet; Boiler Room — 25′ x 25′.

CONSTRUCTION MATERIALS:
Footings and Foundations — Concrete; Outside Walls — Face Brick backed up with concrete block; Floor Construction — Reinforced, integral waterproofed concrete slab on earth with plastic tile and asphalt tile floor covering throughout excepting Toilets and Showers which will have ceramic tile floor covering, Slate floor in Lobby and Wood floor in Gym; Roof Construction — School Portion, Douglas Fir roof rafters, planking or boarding with insulation and 20-year bonded tar and gravel roof. Auditorium-Gymnasium and Stage, Long span trusses, planking, insulation, and tar and gravel; Flashing — 16 oz. copper; Windows — Structural wood units in School Portion, Glazing, 3/16″ sheetglass, Steel units in Auditorium-Gymnasium and Locker Rooms and Shops; Interior Partitions — Concrete Block, painted; Corridor Walls — Glazed tile dado at height of built-in, recesed lockers (405 lockers); Door Bucks and Trim — 16 gauge metal; Doors — Outside, 2¼″ white pine, painted, Inside, Birch veneer, solid core flush doors, painted; Ceilings — Acoustical 1′ x 1′ random-perforated units, excepting in Toilets which will be sheetrock, Boiler Room ceiling, Asbestos Board; Heating — Forced Hot Water, Vulcan Radiation, Zone and Temperature controlled; Ventilation — Classrooms, Auditorium-Gym, Locker Rooms, etc. to be ventilated by electrically-operated fans, galvanized iron ducts; Plumbing — Standard school sizes meeting all plumbing codes and requirements; Electric — Fixtures, Incandescent and Fluorescent, Wiring, Romex, Shops to have aluminum plug-in busway.

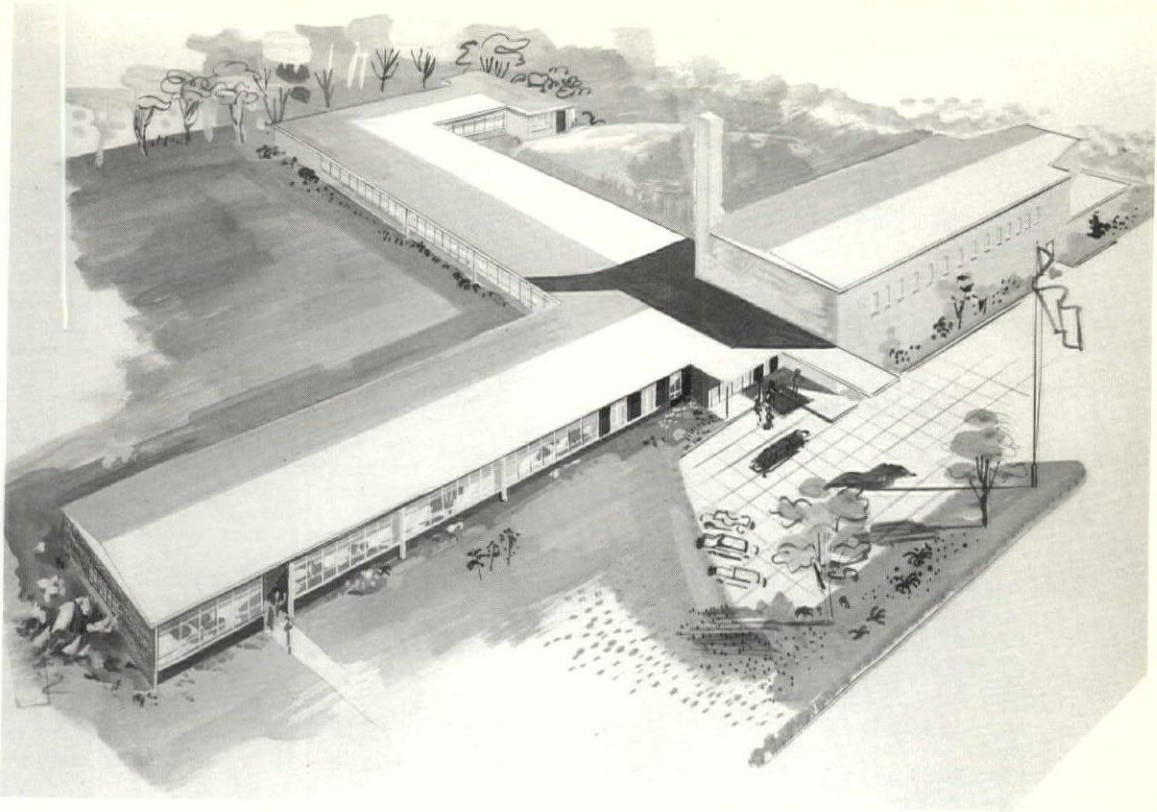
ITEM	*Cost*	*% of Total Cost*	*Cost Per. Sq. Ft.*	*Cost Per Cu. Ft.*
STRUCTURE	$390,635.00	68.6	$ 7.88	$ .45
PLUMBING	36,151.00	6.4	.74	.04
HEATING AND VENTILATING	81,157.00	14.2	1.63	.09
ELECTRICAL	61,800.00	10.8	1.24	.07
TOTAL COST OF BUILDING	$569,743.00	100.0	$11.49	$0.65
Grading, Drives, Walks & Parking Area	16,800.00			
Total Construction Cost:	$586,543.00			

TOTAL VOLUME: 861,368 cu. ft.— TOTAL AREA: 49,581 sq. ft. — BID OPENING: February 17, 1960—CLASSROOM CEILING HEIGHT: 9′-8″— GYMNASIUM HEIGHT From floor to bottom of trusses — 21′-3″.

SUPERINTENDENT OF SCHOOLS: Harold C. Bowley.
SCHOOL BOARD MEMBERS: Mr. Mario Infanti, Chairman; Mrs. Martha Rotch and Mr. Salvatore P. Grasso.
BUILDING COMMITTEE CHAIRMAN: Mr. David Hoadley.

ALfred T. Granger Associates, A.I.A., Architects and Engineers
Hanover, N. H.

THE MacMILLIN COMPANY, INC., KEENE, N. H.
GENERAL CONTRACTOR



The MacMILLIN COMPANY, Inc.

Builders

SKILL · RESPONSIBILITY · INTEGRITY

THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA · AGC · REG. U. S. PAT. OFF.

GENERAL CONTRACTORS

for

SENIOR HIGH SCHOOL
Milford, N. H.

KEENE, N. H. ELmwood 2-3070

ADDITION TO ELEMENTARY SCHOOL
HANOVER, NEW HAMPSHIRE

CONTENTS:
This 8-room Addition which is T-shaped is connected to the present southeast wing of the Elementary School. This addition contains 198,100 cubic feet or 13,034 square feet and consists of the following rooms:
Seven Classrooms — 25′ x 40′, Wall counters, built-in Wardrobes and Teacher's Closets, Sink and Bubbler Units, 16′ length blackboards and 40 lin. feet of tackboards. From each of these classrooms are two separate toilets; All-Purpose Room — 33′ x 40′, With Sink and Bubbler Cabinet and with two toilets; Instrument Storage Room — 8′- 6″ x 22′, Available from All-Purpose Room and Corridor; Remedial Reading Room — 16′ x 24′, With Closet and Book Shelves; Book Storage Room — 11′ - 6″ x 21′ With shelving on three walls up 8′ high; Supply Storage Room — 12′ x 36′; Ground Equipment Room — 12′ x 28′, Available with outside door; Janitor's Closet — 8′ x 11′, With slop sink trough; Teacher's Toilet.

CONSTRUCTION MATERIALS:
Footings and Foundations — Concrete; Walls above Foundations — Sand struck brick to match present Elementary School backed up with load-bearing concrete block; Floor Construction — Reinforced integral waterproofed concrete slab on earth with floor covering of vinyl tile throughout excepting Grounds Equipment Room which will be granolithic; Roof Construction —2″ x 14″ Douglas fir roof rafters, boarded, insulation, and 20-year bonded tar and gravel roof; Flashing — 16 oz. copper; Windows — Aluminum, Lower Winco strip windows in classrooms have glass block above. All glazing double-strength "B" quality glass; Interior Partitions — Concrete block, painted. Toilets and Corridors have Duraglaze block; Door Bucks —Metal trim and door buck combinations, 16 gauge; Doors — Outside, White Pine, Inside, Birch Veneer, solid-core, flush-type, glazed where needed; Ceilings — Acoustical Tile Units, 12″ x 12″; Heating — Forced hot water, Vulcan radiation, with unit ventilators, zone and temperature controlled. Present boilers to be used with converter, pumps and controls; Ventilation — Classrooms are ventilated by electrically controlled fans, roof ducts are in ceilings of Wardrobes. Galvanized iron ducts; Plumbing — Standard, meeting all plumbing codes and requirements; Electric — Fixtures, Fluorescent and flush lighting, Wiring, Romex.

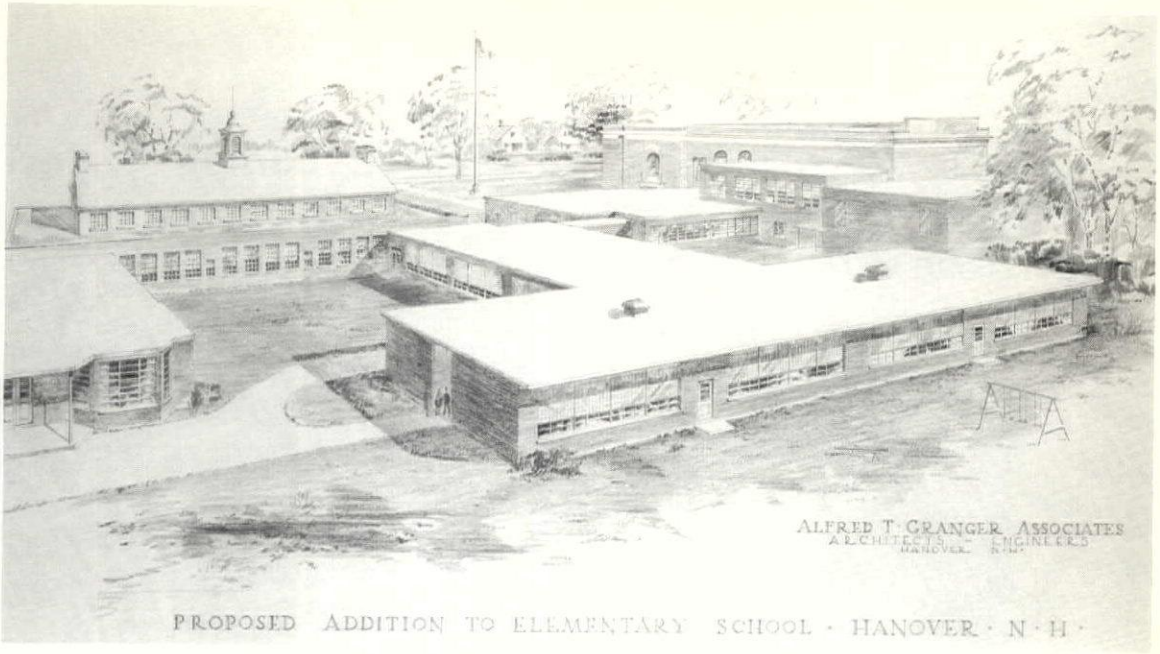
ITEM	*Cost*	*% of Total Cost*	*Cost Per. Sq. Ft.*	*Cost Per Cu. Ft.*
STRUCTURE	$121,227.00	70.0	$ 9.17	$ .60
PLUMB., HEAT., VENT.	37,000.00	22.0	2.88	.19
ELECTRICAL	12,588.00	8.0	1.05	.07
TOTAL COST OF BUILDING	$170,815.00	100.00	$13.10	$0.86
Grading, Drives	3,000.00			
Total Construction Cost:	$173,815.00			

TOTAL VOLUME: 198,100 cu. ft. — TOTAL AREA: 13,034 sq. ft. — BID OPENING: December 29, 1959 — CLASSROOM CEILING HEIGHT: 9′- 8″.

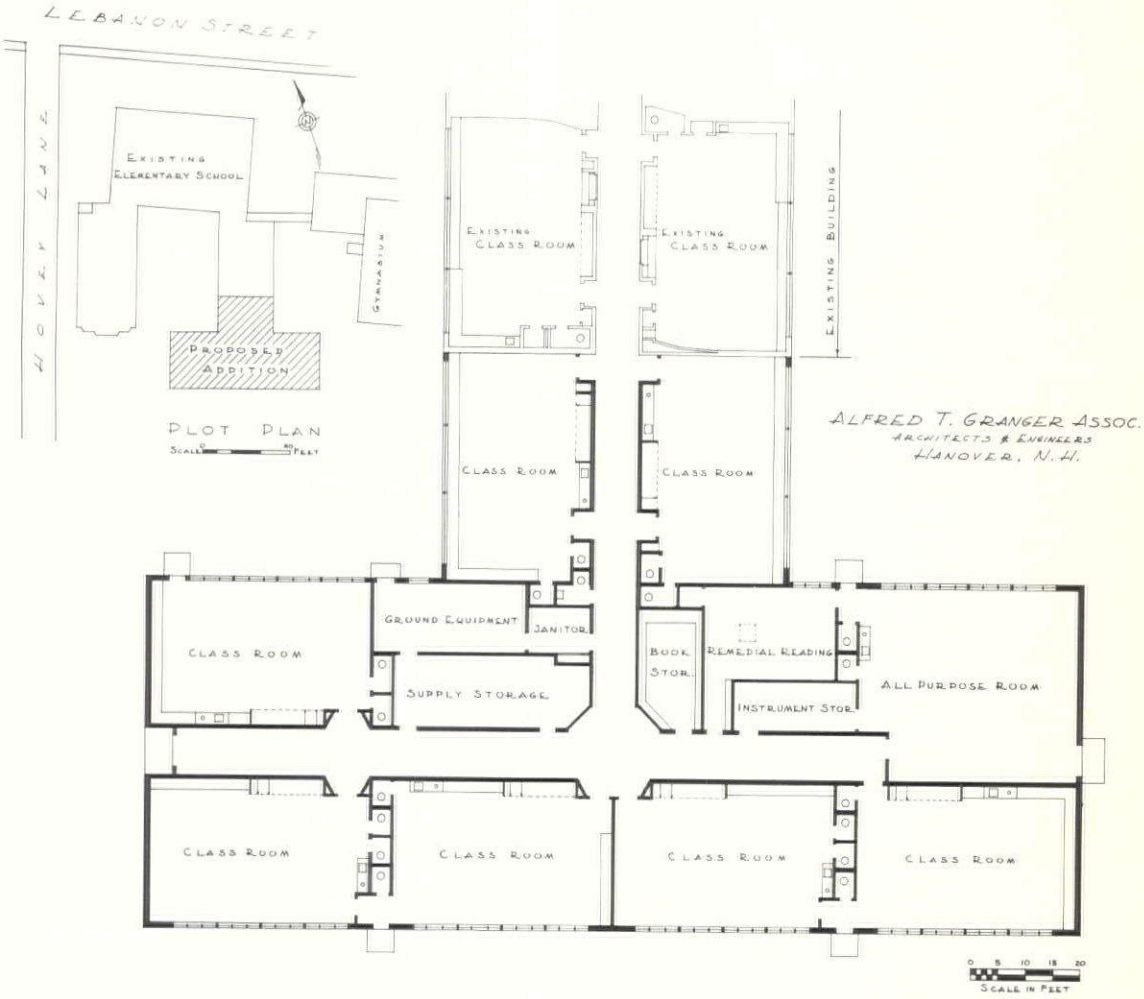
SUPERINTENDENT OF SCHOOLS: Arthur E. Pierce.

Alfred T. Granger Associates, A.I.A., Architects and Engineers
Hanover, N. H.

GENERAL CONTRACTOR
Superstructure: R. E. Bean Construction Co., Inc., Keene, N. H.
Foundation: Trumbull-Nelson Company, Inc., Hanover, N. H.



PROPOSED ADDITION TO ELEMENTARY SCHOOL · HANOVER · N·H·



PROPOSED
ADDITION TO ELEMENTARY SCHOOL HANOVER, N. H.

FRANK T. CODY CO.

Electrical Contractors

HANOVER, N. H.

Phone Hanover 720

Another Quality
ELECTRICAL INSTALLATION
By Us At

New Addition
Hanover
Elementary School
Hanover, New Hampshire

Randall Company, Inc.

RUTLAND, VT.

272 So. Main St. Tel. PRospect 3-2791

•

Plumbing - Heating

at
New Addition
Hanover
Elementary School
Hanover, New Hampshire

R. E. BEAN CONSTRUCTION CO., INC.

40 Carpenter Street – Keene, N. H.

GENERAL CONTRACTOR

for

For Addition To

HANOVER ELEMENTARY SCHOOL
Hanover, New Hampshire

INDUSTRIAL — COMMERCIAL — RESIDENTIAL BUILDING

White River
Structural Steel Co., Inc.
WHITE RIVER JUNCTION, VERMONT
Telephone 1430

HAROLD ST. PETER, PRES.

Fabricators of Structural Steel
and Miscellaneous Iron Work
Ornamental Stairs, Fire Escapes

STEEL for
Hanover Elementary School
Sunapee School and Gymnasium
Norwich, Vermont, Elementary School
Windsor, Vermont, High School

Celotex Acoustical Products

Office Partitions

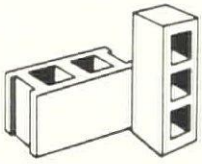
Porex Roof Decks

by

Pitcher & Company, Inc.

167 Albany St., Cambridge 39, Mass.
Goffstown, N. H. HYacinth 7-2376

"RUGGED AS MONADNOCK"



standard block
half-hi block
hilite block
duraglaze block
formbloc

MONADNOCK BLOCKS

. . . the best in concrete masonry . . .

READY-MIX CONCRETE

available at plants in
Keene, Charlestown,
Peterborough and Newport

COMPLETE LINE
OF
MASONRY SUPPLIES

ARTHUR WHITCOMB, inc.

725 MAIN ST.
KEENE, N. H.

To The Editor — New Hampshire Architect

IT IS HIGH TIME ! !

By Kenneth E. Maxam

That someone sounds a warning. Not that others have not said these things before. Contrarily, they are on the lips of everyone these days in the contracting business. It is simply that we have not seen them in print. It may well be that some readers may think we are wild, or cracked. So be it! We have put our tongues in our cheeks for safe measure. At any rate, here we go:

Building construction, as well as other construction, is going too cheap in New Hampshire and its environs. Everyone seems to want something for nothing. Perhaps the Discount-house-way-of-life is beginning to creep into the industry, and we all know the consequences—no service, and no responsibility—cash and carry is the by-word, except that we never seem to get the cash over the counter on such a transaction. And besides, who is going to do the carrying of a school house, or a bridge, from Boston to East Overshoe? One person has referred to the situation as being one of "Profitless Prosperity." However, we see the situation as arising from several causes:

Cause #1: Architects, in their zeal "to get a job" or to prove their "prowess" to design something cheaper, are making all sorts of rash promises to clients in the effort to secure lower prices. Ingenuity of design and use of new methods and materials are being discarded, and in their stead, acceptance of less than minimum requirements and price chiseling are being used to meet that end. This enables incompetent and unqualified contractors to move in and enter their bids. Most important, however, is the fact that some architects are allowing contract awards when they very well know that the price is far below what it should be. No man ever has been, is now, or ever will be, a worker of miracles, including architects.

Cause #2: Some contractors are "on-the-wheel," they are taking a job below cost to pay their bills on the last job. Or, they are stupid enough to make the mental reservation that they can "make it up on the next job." Or, they are soft enough to sign up to "keep the crew working." Price peddling is still going on, and that needs no comment. No man is a miracle worker, including contractors.

Cause #3: Owners, school boards, committees, etc., due sometimes to pressures, are accepting sub-standard bids, in the full knowledge that they not only jeopardize the quality of the finished product, but that irresponsibility, unpaid bills, and a "clipping" will be their legacy. No one can work miracles, including school boards and taxpayers.

Cause #4: Banks, and financing institutions seem to adopt a position of inconsistency. Their constant cry is that prices and wages of everything under the sun is too high. Except, of course, interest rates, which are constantly climbing. It was only recently that the National Association of Home Mortgage Men, in convention, stated flatly that home construction costs must be driven down. Yet these same people, in the course of 20 years, accept from the hands of the borrower of $20,000.00, interest totaling $14,389.60, compounded at 6%.

(Continued on Page 26)

RIVERS and HENRY

O. A. Rivers R. H. Henry

Plumbing and Heating Contractors

KEENE, NEW HAMPSHIRE

Rear 97 Main St. Tel. ELmwood 2-3231

For the sixth consecutive year New Hampshire Architect will feature School Construction in the November issue.

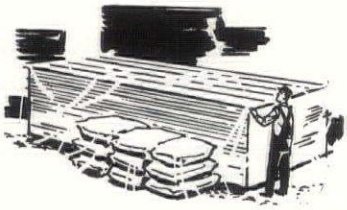
About twenty-five Schools, Additions and New Construction will be shown.

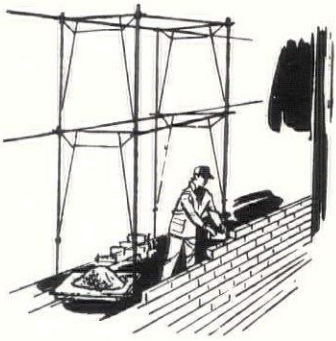
Please mail your requests for additional copies to the Publishers by November 1st.

DOW® POLYFILM™

AVAILABLE IN STANDARD SIZES AND THICKNESSES

This versatile material is ideal for protecting supplies and tools on the job site. It is a superior covering because of its weather-resistance, low cost and ease of handling. Polyfilm® is also useful for protecting lumber, cement, steel, tools, machinery, trucks, etc.





Polyfilm is available in 2 Mil, 4 Mil, 6 Mil thickness, 100 ft. rolls. Variety of widths to 24 ft.

CORRIVEAU-ROUTHIER CEMENT BLOCK CO.

266 Clay Street — Manchester, N. H.
NAtional 2-3506

IT IS HIGH TIME ! ! — (continued)

Cause #5: Even Uncle Sam, acting through FHA consistently refuses to recognize legitimate land costs in home construction; such as ledge removal, borrow, fill, and loam purchases in their appraisals. They also refuse to recognize in their appraisals, anything over a wholesale distribution cost of electric appliances and at the same time demand a year's service from the builder on these appliances; or, if they do not, the customer will. And the builder does not make a plugged nickel. The inconsistency of FHA is that it is an agency of the U. S. Government, dedicated, (we hope) to the American Way of Life, the "Profit System," and "Free Enterprise."

Cause #6: A Public Utility Company recently took bids on a project and rejected them all as being too high. They called in bidders from another state and the result was that the new bidders were even higher. The original low bidder was low again, at his original fair and decent price, yet, his first bid brought down their wrath. A few days later the utility announced a request for a rate increase, said rate increase to bring their profit to a percentage protected and guaranteed by law.

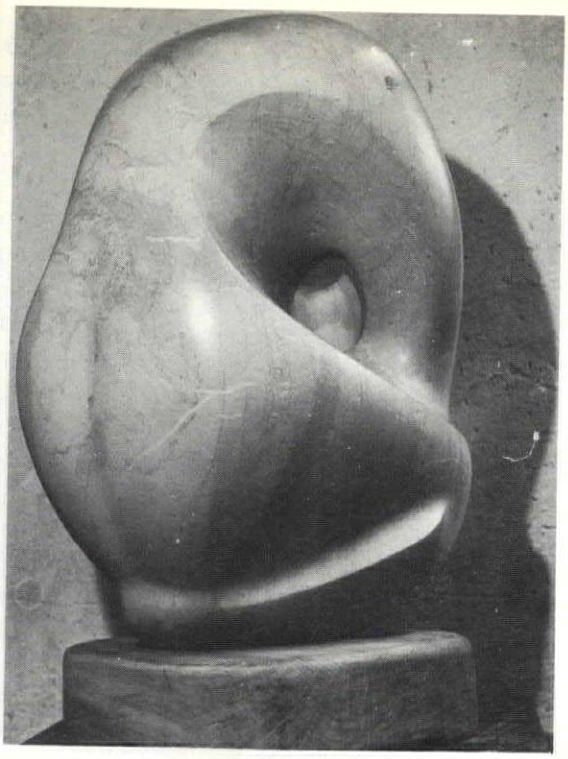
Cause #7. Bonding companies seem to have the faculty of finding and making new construction companies by the dozens. Once upon a time, the prime requisite for a builder to get a job was his skill, his ability, his integrity and his responsibility. The next yardstick of qualification was the amount of money he had, former considerations be damned! If you doubt the latter, take a good long look at the general contractors who have no equipment, no personnel, and no experience. Now, however, the bonding companies seemed readily willing and able to go along with the new and only qualification, to wit, how cheap can we buy his service, Nay — "can we get him to work for nothing?" Nay again— "can we ask him for a donation to boot?"

There is a right price for everything; and by right, we mean fair, honest and profitable. A right price is 25¢ for a loaf of bread, or a pack of cigarettes. It is $5,000.00 for a school teacher; it is $10.00 for a keg of nails; and it seems that today in many walks of life that a right price is a percentage price. These are the days of percentage economies, percentage living, and we are not referring to 5%, we are referring to 6% for architects, no matter what the cost. We refer to 6% for interest, no matter how much you borrow. We refer to 6% profit for utility companies, no matter how much they sell. We refer to 6% for Social Security, no matter how long you live or how long you work (and who wants to work after the age of 65 in the construction business?). We repeat. Construction is going too cheap. It does seem that a better way is possible than the dog-eat-the-dog's profit in our bidding system, as it now works. The public rebellion against big automobiles, with big price tags, which brought on the foreign cars did not drive the prices down. We simply get less automobile for less money. Less building space for less money certainly should be the order of the day. The less you eat, the less you burp.

But it is not within the realm of reason that the same space and same quality should be done for less money. The construction industry, taken as a whole, is the largest industry in America in terms of people employed, dollars spent, and in value received. Yet the net profit percentage in our industry is one of the nation's lowest.

We say to the construction industry, our industry, **Clean up,** or we will have the wrath of punitive legislation on our necks. In the final analysis, this whole problem boils down to one of selfishness and greed, and if we want that to become our motivation, we will even find ourselves without legislatures that might become vengeful.

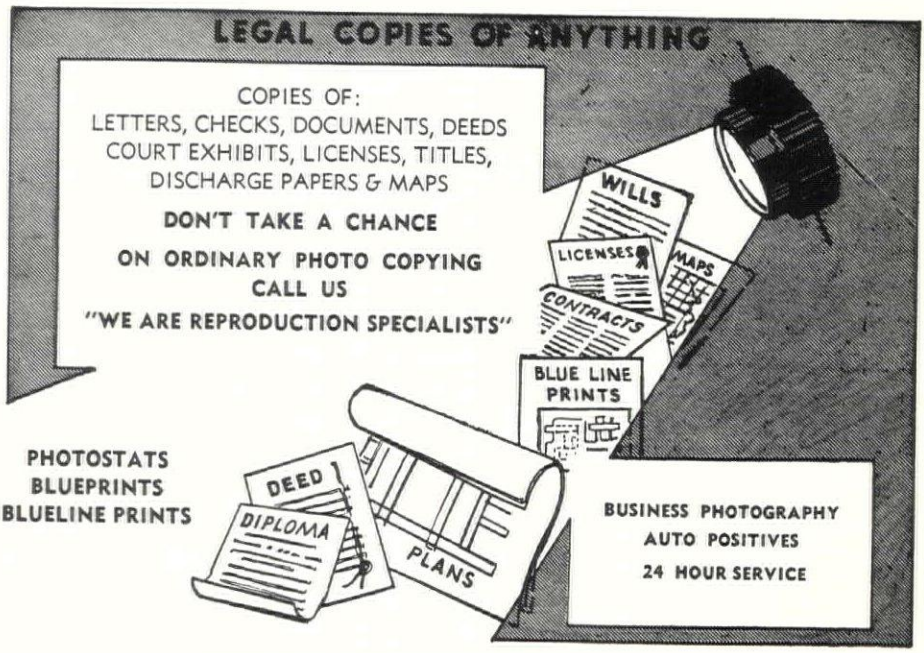
It would seem to us from where we sit, that our prime enemies are big government, big labor, and big corporations. Bigness in and of itself is not only costly, it is coercive. If the construction industry becomes one of bigness through corporate mergers and consolidations then those who buy the product will pay the tall price of the resultant tall overhead and coercion. Do you want to see this happen?



Sculptural form has always been used in Architecture when the finest results have been achieved. If not in statuary; as in the Gothic Cathedrals, Greek Temples, and ancient palaces; as good form in the structure itself. The architects problems are of course more complicated than the sculptors but when they work together they compliment one another and their works more completely express their times.

Winslow B Eaves

PHOTOSTATS-BLUELINE PRINTS



PHOTOSTATS
BLUEPRINTS
BLUELINE PRINTS

"ONE TO A MILLION COPIES OF ANYTHING"

GEORGE C. BENJAMIN

92 MARKET STREET **DIAL 2-2273** MANCHESTER, N. H.

NORTHERN ASSOCIATION OF SUBCONTRACTORS SCHEDULE FALL MEETING AT HANOVER ON OCTOBER 21, 1960

Samuel H. Ramsey, noted humorist and speaker will be the feature attraction at subcontractors meeting. Nationally known as a speaker before trade Groups, Chambers of Commerce, Medical Associations, Bankers, and Service Groups, Mr. Ramsey is proclaimed as "Tops" by all who have heard him speak.

During the past thirty-two years he has been an electrical contractor in Rhode Island, a member of its Legislature, and most active in civic and social work in his home state.

From testimonials across the country his message and humor alone are worth the price of admission.

At an executive committee meeting held at Hanover, plans were completed for the fall meeting, and election of a new slate of officers. Site of the meeting on October 21st will be the Hanover Inn, Hanover, N. H.

After a year of organization under its first president, C. Bader Brouilette, Burlington, Vt. contractor, the Northern Association of Subcontractors is intensifying its drive for new members. Each member is planning to invite and accompany a new or potential member. The organization also plans to revise its membership dues structure, thereby affording increased interest in its function.

As an innovation and a "treat" the association is "picking up the tab," for a cocktail hour to be held from 6:00 to 7:15, followed by dinner at 7:30. The cocktail hour only, is being paid by the association, dinner charges will be assessed each member or guest. Election of officers, business of the association, welcoming new members, and a noted guest speaker will complete the program.

RESTAURANT EQUIPMENT CO. HELD OPEN HOUSE IN NEW QUARTERS

The Interstate Restaurant Equipment Co. of Manchester, N. H. recently celebrated their moving into their new quarters with an open house which was held on September 19th and 20th. This marks the third move for this young firm which has been in business eleven years. During this period the company has expanded all its lines and today carries a complete line of nationally advertised Food Service Equipment.

Their new quarters are located at 37 Amoskeag Street, just off the Everett Turnpike exit into Manchester. It consists of a showroom and shipping room on the first floor and warehouse and receiving space on the lower floor. There is 5000 square feet on each floor.

The company is today considered the leading Food Service Equipment dealer in Northern New England and services the three state area of New Hampshire, Vermont, and Maine.

In addition to the Food Service Equipment the company has added a full line of maintenance equipment and is the distributor for "Multi Clean Maintenance Program." A full stock is maintained of all types of waxes, floor finishes, floor and scrubbing machines, and industrial vacuum cleaners.

Currently the company is working or completing the following installations; Keene Senior High School, Keene, N. H.; Otter Valley School, Brandon, Vt.; Ellsworth High School, Ellsworth Falls, Me.; Brunswick School, Brunswick, Me.; Buxton School, Buxton, Me.; and the Canann Elementary School, Canann, Vt.

The firm is a member of the Food Service Equipment Industry and one of its sales engineers, Mr. Bob Novak, was recently elected to membership in International Society of Food Service Consultants. Mr. Novak becomes the 93rd member in the world to be so honored.

"I don't know who you are.

I don't know your company.

I don't know your company's product.

I don't know what your company stands for.

I don't know your company's customers.

I don't know your company's record.

I don't know your company's reputation.

Now—what was it you wanted to sell me?"

MORAL:
Sales start before your salesman calls—with business publication advertising.

This is one of the great advertisements of all time.

It was prepared by the Fuller &Smith & Ross advertising agency for the McGraw-Hill Publishing Company, and is reprinted here with the kind permission of McGraw-Hill.

Advertising is the first tool of business . . . and a vital investment in a company's success.

To those advertisers, local and regional who must reach and sell the architect and contractor **New Hampshire Architect** is an economical, effective advertising medium.

JOHN J. REILLY

ELECTRICAL

CONTRACTOR

Residential and Industrial Wiring

DIAL MAN. 3-3568

875 South Willow St., Manchester, N. H.

Motor Repairing

PALMER
Plumbing Supply Co.

Wholesalers

Plumbing - Heating - Mill Supplies

Distributors of

VEIL-McLAIN BOILERS
KOHLER ENAMELWARE
PETRO OIL BURNERS

ROCHESTER, LACONIA, N. H.
PORTLAND, ME.

"Competent Engineering Service"

STEEL

Lyons

IRON WORKS, Inc.
MANCHESTER, NEW HAMPSHIRE

NEW HAMPSHIRE ARCHITECT

P. O. Box 291, Concord, N. H.

Sec. 34.66 P. L. & R.
U. S. POSTAGE
PAID
Concord, N. H.
PERMIT NO. 297

Library-American Inst.of Archit.s.
1735 New York Ave. N.W.
Washington 6, D.C.

Form 3547 Requested

Call **DENSMORE** *For Fast Delivery . . .*

of

CLAY PRODUCTS

and

MASONRY SUPPLIES

Face Brick — Glazed Facing Tile
Sewer Pipe — Flue Lining
Fire Brick — Water Proofing
Scaffolding — Metal Specialties

NATCO
QUALITY CLAY PRODUCTS SINCE 1889

STRUCTURAL CLAY PRODUCTS INDUSTRY
MEMBER MANUFACTURER

Densmore Brick Company

HANOVER STREET, LEBANON, NEW HAMPSHIRE

MANUFACTURERS OF WATERSTRUCK AND SANDSTRUCK BRICK

K+E

QUALITY PRODUCTS and PRECISION INSTRUMENTS

- **MICRO-MASTER®** — an amazing new process providing clear, distortion-free "second originals". Tiny 4 x 6" negatives can be projected up to original size and more. Save storage space, mailing costs.
- **HERCULENE®** Drafting Film — the newest, most durable drawing medium. Ideal surface "take" for pencil, ink, or typewriter. Balanced transparency. Lies flat. Resists rough handling. Matted one or both sides. In Rolls or Sheets. *Find out Today!*
- **K & E INSTRUMENTS** — select from our complete line . . . for every engineering and drafting use.

Choice of Engineers for OVER 60 YEARS

- Expert Blueprint, Photostating and Plan Reproduction Service
- Engineering, Surveying and Drafting Equipment
- Professional Repair Service

B. L. MAKEPEACE Inc.
1266 BOYLSTON ST. BOSTON, MASS.
Call COpley 7-2700